

Product datasheet for **SC122341**

HIF1AN (BC015574) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | HIF1AN (BC015574) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | HIF1AN |
| Synonyms: | FIH1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF:

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>OriGene sequence for BC015574 edited
GGCACGAGGAGGCCTTGGGGAACCCACAAGAGGTGGGGCCCTTGTGAACACAATGATCA
AGGGCCGATACAAGTACCTGCCAGGGGTCAAGGCCTCCTGCCAGGTGACTGCTATCCCG
TCCACACCGCTTCATTGATGAGGACAGGAGACTCCAAGCGCTAGTATTGCACGCTGCACT
TAATGGACTGGACTCTTGCCATGGCCCAGGAGTCAGGTGTTTGGAGCGAGGCAGGGCAGT
TGGCACTCCACTCCTATTTGGAGGGACTTCATACCCTTGCCTCTTGTGCCCCAGCACCTT
CTCTCTTGCCCCCGCCTAAAGTCCTGCATTCAAGTGTGTGGAGTCCCAGCTTTTGGTTG
TCATCATGTCTGTGTATGTTAGTCTGTCAACTTCGGAATGTGTGCGTGTGTGTGCATG
CACACGCATGTATGTATCTGTTCCCTGTTCTTCTGGGTGAGGCTGCACTTCCGGCTCT
CAGCCCTATCTCTGCAACCTCAGTGCCTCAGCCTGAGAGAGAGATGAGATGCTCTTGGGA
CTCCCCACTGCATCTGGGCTGCAGGGCCAGAGCTAGTCTGACCATTAGGTGAGTCTGCCT
CCTGACAGTTTTTGCAGTCAAGCTCTAGGCGGTATGGGAATGGCTACCGGGACTCTAA
TGGGGTGAAGAGAGGGGAGGCTTGCCCTTGGAGCCTATATAGCCTTCTGTGAGAGAG
GATTAGATAGGGTCCAAGTGGGCTACAAGCTCAAGCCATACATAAAAAGGACCTTGGGA
CATAAGAACCAATGATTGTGCATAAGTTCTAAATTAGAGACACATATAGTTTCTCTCTTT
CAGCACCAAGCTCTTGCCCTATGCTGGGTACCAAGGGAGTTCTCCTAGCTGTGGCTTCTC
TAGGTTCTAGGGGTGCAAGCCTCTGTGTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTG
ACACTAGGGGTGCAAGCCTCTGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGCTTACCTTTTCCAGTGGGACAGTACAGTGTGAGCCCCGGGAAGTACTGCCTGACCTA
TCCTAAGCTTTTACACTTGGATTTTAGCCATCATATGTTGGCCAGGTCTCACTGCAGCCT
GCCCCAGGCTAACTGGCTAGAGCCTCCAGGCCCTATGATGCTCCCTGCCAGGCCATATC
CTTTATTCTGTGAGCTTCTGGCTGAATAGATGAAATGGGGTCAAGCCAGGCAGCTC
ATTCACTACCTGTGATCCACCTCAGGGCACGGGCAACACATAGGCTTGGCTTTAAAGC
CAGCTCCTCTGCCAGACCCCGTTGTAATGTGCCACAACACCCTCAATAGTCAGGGCAACT
GGTGGAGCATGGAAGTCGAATTTCTTTTCTGTTAGGAGCTACTCCTGGGAACCCCTCTC
AGGGCTGCAGCTTACAGGTGGGAGCTGTGATTGCACAACCTGAAGGGCCATCATTACACA
TCTATTAGTGGGAGTGGGGTCCCTGGGATTGGGAGTGTGGTGGCCCTGTGTCTCTCA
CCTCTGCTCCTGTCTTACACCTTCTCTCTGGAAGGGAAGAGGAGTTGGAAGGTCTCTG
GTTTTCTTTTCTTTTTTTTTTTTTTTTTTGGCAAAGGTTTACTTCCAGCATCTGAGCTCTGC
TCTCACCCCTGAAGCTCAGTTATAGTGCCTGATGAACTGAGAGGATGCGTGTGGATGTG
TGTGCATGCCTGAGTGCCTTTTTTGGGGAGGGGTGTTATTTTTAGTACCCCATCTGGG
GTTCTCTGATGCAGTGTGGATGTGAAGATATGGTACCTTCTCAAGTGTAGCTCTTTCAAA
TATAGTCAATGCTGGAAATGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA
    
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| 5' Read Nucleotide Sequence: | >OriGene 5' read for BC015574 unedited GTGATTTGTTATCCCATACCTTATATGGCGGCCGCGACATTTCGCACGAGGNAGGCCTTGG GGTAAACCACAAGAGGTGGGGCCCTTGTGAACACAATGATCAAGGGCCGATACAACACTAG CCTGCCAGGGGTCAAGGCCTCCTGCCAGGTGACTGCTATCCCGTCCACACCGCTTCATTG ATGAGGACAGGAGACTCCAAGCGCTAGTATTGCACTCTGCACTTAATGGACTGGACTCTT GCCATGGCCCAGGAGTCAGGTGTTTGGAGCGAGGCAGGGCAGTTGGCACTCCACTCCTAT TTGGAGGGACTTCATACCCTTGCCTCTTGTGCCCCAGCACCTTCTCTCTGCCCCCCGC CTAAGTCCTGCATTTCAGTGTGTGGAGTCCCAGCTTTTGGTTGTATCATGTCTGTGTGT ATGTTAGTCTGTCAACTTCGGAATGTGTGCGTGTGTGTGCATGCACACGCATGTATGTAT CTGTTCCCTGTTCTTCTGGGTCAAGGCTGCACTTCCGGCTCTCAGCCCTATCTCCTGCA ACCTCAGTGCCTCAGCCTGAGAGAGAGATGAGATGCTCTTGGACTCCCCACTGCATCTGG GCTGCAGGGCCAGAGCTAGTCTGACCATTAGGTCACTGCTCCTGACAGTTTTTTCGT AGTCAAGCTCTAGGCGGTATGGGAATGGCTACCGGGACTCTAATGGGGTAAAAGAGAGGG GAGGCTTGCCCTTGGAGAGCCTATATAGCCTTCTGTGAGAGAGGATTAGATAGGGTTCCA ACTGGGCTACAAGCTCAAGCCATACATAAAAAGGACCTTNGACATAAGAACCAATGATT GTGCATAAGTTCTAAATTAGAGACCATATAGTTTCTCTTTACACCAGCTCTTGCCCT ATGCTGGGTACCAAGGNAGTCTCCTAGCTGGGGCTCTCTAGGTCTAGGGTGCAGCCTCTT GTGTTGTTT |
| Restriction Sites: | Please inquire |
| ACCN: | BC015574 |
| Insert Size: | 1982 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | <ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | BC015574.1 , AAH15574.1 |
| RefSeq Size: | 1982 bp |
| Locus ID: | 55662 |
| Cytogenetics: | 10q24.31 |
| Protein Families: | Druggable Genome |

Gene Summary:

Hydroxylates HIF-1 alpha at 'Asn-803' in the C-terminal transactivation domain (CAD). Functions as an oxygen sensor and, under normoxic conditions, the hydroxylation prevents interaction of HIF-1 with transcriptional coactivators including Cbp/p300-interacting transactivator. Involved in transcriptional repression through interaction with HIF1A, VHL and histone deacetylases. Hydroxylates specific Asn residues within ankyrin repeat domains (ARD) of NFKB1, NFKBIA, NOTCH1, ASB4, PPP1R12A and several other ARD-containing proteins. Also hydroxylates Asp and His residues within ARDs of ANK1 and TNKS2, respectively. Negatively regulates NOTCH1 activity, accelerating myogenic differentiation. Positively regulates ASB4 activity, promoting vascular differentiation.[UniProtKB/Swiss-Prot Function]